

20000410.qrp v01_n787.qrl.20000410

Date: Mon, 10 Apr 2000 19:03:10 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1787

QRP-L Digest 1787

Topics covered in this issue include:

- 1) [67528] Re: TT #224...TNX
by W1XV@cs.com
- 2) [67529] Norcal Paddle Kit
by tailfeathers@juno.com
- 3) [67530] Re: Help with QRP-ARCI QSO
by K2UD@aol.com
- 4) [67531] Re: Happy Dance at Arkiecon
by "Gary O. Lyons" <drgary@amaonline.com>
- 5) [67532] wtb heil mike element
by M Goins <mgoins@usa.net>
- 6) [67533] antenna ice
by john@neknetwork.com
- 7) [67534] Wanted - Index Labs QRP Plus
by "Brian Hunter" <HunterFamily@prodigy.net>
- 8) [67535] Another short ArkieCon report
by "Kelly Ellison" <kelman@dialnet.net>
- 9) [67536] Arkiecon Was a Blast!!!!
by "James R. Duffey" <jamesd1@flash.net>
- 10) [67537] wanted: LDG tuner
by M Goins <mgoins@usa.net>
- 11) [67538] Re: Help with QRP-ARCI QSO
by "Jerry Scherkenbach" <jerrys@execpc.com>
- 12) [67539] Re: antenna ice
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 13) [67540] Re: antenna ice
by Dick Carroll <dixie@townsqsr.com>
- 14) [67541] ArkieCon
by Gary Harrison <k0bc@ipa.net>
- 15) [67542] Need an answer
by Robert B Boughner <notajock@juno.com>
- 16) [67543] VFO Temperature Stabilization
by Larry East <w1hue@amsat.org>
- 17) [67544] ArkieCon: KI6DS Report, Long
by "Doug Hendricks" <ki6ds@hotmail.com>
- 18) [67545] [Dayton] Room to Share
by Jim Stafford <w4qo@amsat.org>
- 19) [67546] antenna ice - thanks!

- by john@neknetwork.com
- 20) [67547] Help with Newport Oscilloscopes
by oxf01@maxmail.co.uk
- 21) [67548] RE: TT C22 pricing?
by "Faith III, Don C" <FaithD@mail01.dnr.state.wi.us>
- 22) [67549] OPERATING: Tuesday - USS Kidd anniversary of kamikaze attack
by n5ib@juno.com
- 23) [67550] FS SG 2020
by cd25d@rhapsodysails.com (Bill Slater)
- 24) [67551] RE: 10 m SSB Freq?
by "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>
- 25) [67552] RE: Board Etching Techniques
by "AI2Q Alex" <ai2q@ispchannel.com>
- 26) [67553] RE: Help with Newport Oscilloscopes
by "AI2Q Alex" <ai2q@ispchannel.com>
- 27) [67554] Re: 10 m SSB Freq?
by "Mike Yetsko" <myetsko@insydesw.com>
- 28) [67555] super loop
by David Heintzleman <pstrdave@kdsi.net>
- 29) [67556] RE: 10 m SSB Freq?
by "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>
- 30) [67557] FS: Paragon, QRP, HF, VHF, tuners, PS, Palomar tuner-tuner,
antennae,more
by "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
- 31) [67558] Lightning protection
by lenny wintfeld <w2bvh@home.com>
- 32) [67559] Contest: K7RE Results ARCI Fall Party
by Brian Kassel <bkassel@dancris.com>
- 33) [67560] ArkieCon
by K5KW@aol.com
- 34) [67561] RE: Lightning protection
by "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>
- 35) [67562] Re: Help with QRP-ARCI QSO
by "Rod, N0RC" <n0rc@qsl.net>
- 36) [67563] Re: Lightning protection
by "Mike Yetsko" <myetsko@insydesw.com>
- 37) [67564] ARCI QSO Party quick summary.
by Ed Loranger <we6w@qsl.net>
- 38) [67565] Re: ARCI QSO Party quick summary.
by "Mark Hogan" <mhogan@email.msn.com>
- 39) [67566] ArkieCon Great Time !
by "Jay Bromley" <w5jay@alltel.net>
- 40) [67567] QRPTTF
by "John Humphrey" <jhumphre@ultra-tech.com>
- 41) [67568] RE: Help with QRP-ARCI QSO
by schoon@amgt.com
- 42) [67569] TEN-TEC Argosy for sale
by "Stephen Gibson" <s.w.gibson@worldnet.att.net>

- 43) [67570] Re: Need an answer
by "James C. Owen, III" <k4cgy_list@yahoo.com>
- 44) [67571] SST/40m VX0 range experience wanted
by Allan G Taylor <agtaylor@llnl.gov>
- 45) [67572] VP6BR is on 21.120 now
by lenny wintfeld <w2bvh@home.com>
- 46) [67573] Multiband radials
by "Dan W. Dooley" <dandooley@pipeline.com>
- 47) [67574] ArkieCon Ramblings
by clifton w sikes <n5uw@juno.com>
- 48) [67575] QRP-ARCI Summary
by "Rod, N0RC" <n0rc@qsl.net>
- 49) [67576] Arkiecon: The People
by "Doug Hendricks" <ki6ds@hotmail.com>
- 50) [67577] From WA2HQrp <tm>
by RangerSF5@aol.com
- 51) [67578] WTB: SST or NC40A PCB, w/ or w/o parts.
by Allan G Taylor <agtaylor@llnl.gov>
- 52) [67579] (LONG) HB: Getting started with SMT
by "Steven Weber" <kd1jv@moose.ncia.net>
- 53) [67580] RE: Cut Numbers.
by Ed Loranger <we6w@qsl.net>
- 54) [67581] QRQ Net, QSO Practice in general.
by Ed Loranger <we6w@qsl.net>
- 55) [67582] Dayton - need a ride?
by "NA6E" <na6e@qsl.net>
- 56) [67583] OPERATING: USS Kidd Tuesday April 11
by n5ib@juno.com

Date: Sun, 9 Apr 2000 19:23:54 EDT
From: W1XV@cs.com
To: qrp-l@lehigh.edu
Subject: [67528] Re: TT #224...TNX
Message-ID: <3f.32c4a01.26226b0a@cs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Tnx to the multitude for quick responses to my posting
re the Ten-Tec #224 filter. I had a good feeling that some-
one here would come up with the answer!! Agn, tnx to all.
72 Brad

Date: Sun, 9 Apr 2000 19:58:03 -0400

From: tailfeathers@juno.com
To: qrp-1@lehigh.edu
Subject: [67529] Norcal Paddle Kit
Message-ID: <20000409.195805.-3841921.0.tailfeathers@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Hello Guys

I was wondering if the Norcal paddle kit was still available and if so is there anyone on the list that has built one. I would like your opinion of the kit and is it something a guy should buy for his first paddle. I am very mechanically inclined and have several types of tools, etc that I could use to assemble it.

Thanks Gary
N8GSJ

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 9 Apr 2000 20:17:08 EDT
From: K2UD@aol.com
To: n0rc@qsl.net
Cc: qrp-1@lehigh.edu
Subject: [67530] Re: Help with QRP-ARCI QSO
Message-ID: <9.418270f.26227784@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

He was sending a cut version of 10099, his ARCI membership number. I also heard 1TTNN being sent at one time.

Cndx not great here as I have heard from others around the country. That and an acute respiratory infection kept my operating hours down this year. Even the weather was lousy!

72

Howard Kraus, K2UD

Date: Sun, 9 Apr 2000 19:49:39 -0500

From: "Gary O. Lyons" <drgary@amaonline.com>
To: <qrp-1@lehigh.edu>
Subject: [67531] Re: Happy Dance at Arkiecon
Message-ID: <000101bfa286\$a7d90bc0\$37d2f5d0@drgary>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="utf-8"
Content-Transfer-Encoding: 7bit

Congratulations Jim! That 20wpm is a great accomplishment.

Gary, W5ZL

Date: 10 Apr 00 00:56:43 America/Fort_Wayne
From: M Goins <mgoins@usa.net>
To: qrp-1@Lehigh.EDU
Subject: [67532] wtb heil mike element
Message-ID: <20000410005643.28977.qmail@aw164.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

I realize a good many of the guys on the reflector work cw exclusively, but I recently purchased a HTX-100 for a driving trip I'll be taking. =

Does anyone by chance have a Heil #4 element lying around they might want to sell? =

mike
wb5yjx
soc54

Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

Date: Sun, 09 Apr 2000 21:44:35 -0400
From: john@neknetwork.com
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [67533] antenna ice

Message-ID: <38F13203.5F5C9407@neknetwork.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Hello,

Starting last night, and into the morning, we got quite a bit of icing, which has now turned to a steady snowfall.

Both of my dipoles have about a solid half inch of ice around them. My 40 meter is covered #14, and my 80/10 meter is uncovered #14.

Both antennas resonant area seems to have shifted about 120 Khz or so (give or take depending on the band) towards the lower end of their respective bands. I guessing, but I'd say they look electrically longer because of increased resistance from the ice on the wire. I'm pleased to say that for the moment they are staying up (sagging, but still up), even with the added weight.

I can use my tuner to swing things back to where I want them, but I'm wondering if it's a good idea to operate under these conditions. Recieve on all bands seems about normal.

Thoughts? 72,

John, KB1ENS

--

John Wagner - john@neknetwork.com

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Date: Sun, 9 Apr 2000 19:21:35 -0700

From: "Brian Hunter" <HunterFamily@prodigy.net>

To: <qrp-1@Lehigh.EDU>

Subject: [67534] Wanted - Index Labs QRP Plus

Message-ID: <002101bfa293\$8037dc60\$73f4fd3f@oemcomputer>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hi, does anyone happen to have an Index Labs QRP+ that they haven't been putting to much use recently ?????? I'm looking for a fully functional rig

with all the upgrades) that's in reasonable (or better) condition.

E-Mail me with details of your QRP+ and what you might consider a reasonable price for it.

Thanks
Brian, KD7CJN

Date: Sun, 9 Apr 2000 21:25:28 -0500
From: "Kelly Ellison" <kelman@dialnet.net>
To: <qrp-1@lehigh.edu>
Subject: [67535] Another short ArkieCon report
Message-ID: <001301bfa294\$5737d6c0\$bfc9e0d8@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Good job to Jay and the guys for putting together a fun event.

Good Speakers, great location, and well organized. I did not win the K2, but did win the Fireball 40 from the NJ club. Also, scored the ArkieCon mini log and Norcal portable antenna. The new tick paddle from Jay's group will be a challenge for me to build but the price was right. I am constantly amazed of the talent that is gathered together at these QRP events.

It was nice to get to know some of the guys that are on the list, and in the QRP community. Thanks again for a great event.

Hope to see you all next year! 73,

Kelly Ellison - WB0WQS Aurora, Missouri

Date: Sun, 09 Apr 2000 20:35:29 -0600
From: "James R. Duffey" <jamesd1@flash.net>
To: "qrp-1" <qrp-1@lehigh.edu>
Subject: [67536] Arkiecon Was a Blast!!!!
Message-ID: <200004100235.VAA15566@chupacabras.flash.net>
Mime-version: 1.0

Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

All - I have just gotten back from Arkiecon in Ft. Smith Arkansas. I had a great time, met a lot of kind and gracious people, and can hardly wait until next year!

I arrived Friday in the early afternoon. Jay, W5JAY and Dave Gauding, NF0R met me at the airport. We went over to Jay's house and met up with Doug, KI6DS who was helping Jay kit up the Ft.Smith QRP group's latest kit; a TICK keyer and paddle for only \$10! It should be as successful as their VE3DNL marker generator, also a bargain at \$10. If you don't have one of the marker generator kits, Jay is still selling them and they are a must if you do any homebrewing. Jay is selling the kits by mail so order a few from him now!

Dave, Doug, and I soon were putting up a 44 ft doublet in Jay's backyard so that Doug could check out his homebrew Z-match (part of his \$50 40 M QRP station). The 3 stooges meet Electromagnetic radiators. We were glad that no one had a camera. The antenna was a NorCal doublet fashioned out of ribbon cable. No soldering was required and we had the thing built and up in less than a half hour. Jay climbed up his tower to install it at 26 ft level (the length of the feedline). We were exposed to Jay's better side during this exercise. :^)

The doublet worked well, as did the tuner after a small glitch was cured. Some ham in Iowa had sent Doug his 10 M SST (the only 10 M one in existence as far as I know). We put that on Jay's log periodic and I managed to work a ZL1!! After I signed, Jay got him on the K-2 without any appreciable improvement in his signal level. This rig was built in Manhattan style and will be featured in a future QRPP.

We had dinner at a local steak house, "The Rib Eye". It was good and I had something I had never eaten before; Fried Pickles! These and a plate of Turkey Fries are the last word in Arkansas Appetizers. A wonderful dinner for champion QRPers!! The steak was good too. Paul, NA5N, and Jan, N0QT, met up with us at dinner. They had spent all day fighting the wind in Oklahoma.

The next day we all went over to the HamFest. Doug's talk was first at 0900. Doug gave an excellent talk on building a QRP station for less than \$50; \$30 for the NorCal SMK-1 (a kit), \$8 for the Z-match (not a kit, but easy to build and get the parts), \$10 for the Ft. Smith Keyer/paddle, and \$2 for the NorCal doublet. This is a real station that you can have a lot of fun with. Doug awarded the station after an amazing feat of numerology involving a dupe from the audience. Amazingly, Jay won. The prototypes had found a good home.

Next on the agenda was Paul Harden, NA5N who gave an excellent talk on the sun and its effect on propagation. According to Paul a giant flare had occurred on the Sun on Friday which means that it will hit the earth Monday, so be prepared for poor conditions tomorrow.

Dave Gauding was on next and he gave a great talk on antennas for portable and indoor use. Dave's talk was great and touched on all sorts of useful antennas for these applications. His hints for indoor operation were particularly useful. He had lots of props so the talk was quite useful and I think everybody went away with new ideas. His small 20 M loop was a big hit. Dave had a lot of questions after his talk and was almost unable to get away for lunch.

Glen Leinweber, VE3DNL then gave talk about operating rigs more efficiently so that battery life can be extended. The highlight of Glen's talk was his discussion of Class E operation of QRP finals. Glen showed two practical circuits which approached 90% efficiency as opposed to about 70% efficiency for the typical class C amp. These can be built without much more difficulty than a conventional final. This was neat stuff about which we will be hearing more in the future I am sure.

Chuck Adams, K7QO, was unable to attend so Paul Harden filled in with his talk on Regens. This is truly a good way to learn about basic RF electronics.

The attendance was very good during the forum, with 60 to 70 attending each talk. This is truly a solid QRP event and will take its place among the holy Meccas of QRP, Tuthill, Pacificon, and Atlanticon.

The evening consisted of test drives of the various QRP rigs. I think one of every type of common rig was available to test drive. Dave and I put up some antennas. I was happy with the performance of my 10 M 3/8 wave prototype. Several people worked JH and JA stations on 10 M with this antenna. Dave's antennas were on 20 M and 40 M. I worked a station in Cincinnati running 700 watts on 20 M. He felt bad when I told him that we were at a QRP meeting!!

The Barbecue for dinner was delicious and the rest of the evening was spent in eyeballs with new friends. I finally got to bed at 0130!

Everybody went to breakfast together on Sunday morning and then it was off to the airport.

I bought an old CWF-2 audio filter at the swap meet for \$3. This was one of the products that put MFJ on the map in the early 70s. The swap was fairly good sized with a wide variety of gear available.

James R. Duffey KK6MC/5
30 Casa Loma Road
Cedar Crest, NM 87008

Date: 10 Apr 00 02:57:40 America/Fort_Wayne
From: M Goins <mgoins@usa.net>
To: qrp-1@Lehigh.EDU
Subject: [67537] wanted: LDG tuner
Message-ID: <20000410025740.6045.qmail@aw164.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

Sorry to post twice. I'm also looking for an LDG tuner. =

mike
wb5yjx
soc54

Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

Date: Mon, 10 Apr 2000 03:10:51 -0500
From: "Jerry Scherkenbach" <jerrys@execpc.com>
To: <K2UD@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [67538] Re: Help with QRP-ARCI QSO
Message-ID: <001401bfa2c4\$49897c60\$dd80cfa9@Pjerrys>

10099 is K0ZK who is in Maine

72
Jerry N9AW

----- Original Message -----
From: <K2UD@aol.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Sunday, April 09, 2000 7:17 PM
Subject: Re: Help with QRP-ARCI QSO

> He was sending a cut version of 10099, his ARCI membership number. I also

> heard 1TTNN being sent at one time.
>
> Cndx not great here as I have heard from others around the country. That
and
> an acute respiratory infection kept my operating hours down this year.
Even
> the weather was lousy!
>
> 72
>
> Howard Kraus, K2UD
>

Date: Sun, 09 Apr 2000 22:33:42 -0500
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: john@neknetwork.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [67539] Re: antenna ice
Message-ID: <002301bfa29d\$92af7240\$61773ed8@aa5tb>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

John,

The reason for the frequency shift when the ice is on your antennas is because the dielectric constant of ice is much greater than that of air and therefore the ice is essentially coating your antennas with a thick dielectric. The effect is to lower the velocity factor of the wire causing the resonant frequency to drop (makes the antenna look longer). The loss factor of clean ice should be low so I wouldn't expect much loss in efficiency except from that loss caused by operating your feedline into a mismatch.

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://home.swbell.net/aa5tb>

Date: Sun, 09 Apr 2000 23:19:46 -0700

From: Dick Carroll <dixie@townsqr.com>
To: john@neknetwork.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [67540] Re: antenna ice
Message-ID: <38F17282.774B6951@townsqr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

john@neknetwork.com wrote:

>
> Both of my dipoles have about a solid half inch of ice around them. My
> 40 meter is covered #14, and my 80/10 meter is uncovered #14.
>
> Both antennas resonant area seems to have shifted about 120 Khz or so
> (give or take depending on the band) towards the lower end of their
> respective bands.
> I can use my tuner to swing things back to where I want them, but I'm
> wondering if it's a good idea to operate under these conditions.

Sure, John just match the antennas with your tuner and carry on. I most always cut any antenna that I plan to use with a tuner a little long anyway, and just add capacitance with the tuner to bring the system to resonance. That's easier, more accurate with tapped-inductance tuners and, I think, a little more efficient than having to add inductance to resonate.

Your transmitter will never know the ice is there.

73, Dick W0EX

Date: Sun, 09 Apr 2000 23:37:53 -0500
From: Gary Harrison <k0bc@ipa.net>
To: qrp-1@Lehigh.EDU
Subject: [67541] ArkieCon
Message-ID: <4.2.2.20000409233050.00b5ca20@popd.ipa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I have to add my thanks for all of the hospitality and fun at Ft Smith. That is about a 225 mile drive from Southwest Missouri (Bolivar) but well worth it. The only regret here is I did not win the K2! I did get to visit with lots of old and new friends while there.

I really enjoyed listening to the various talks. This is the first time that I got to see and handle a "tuned" speaker. I have heard discussions

about this but never had a opportunity to see one. Lots of fascinating rigs and antennas to see and play with.

Great job everybody! I did let the weather keep me from going last year but I intend to be there next year. Joplin, Missouri on tax day and then on to Dayton.

73,
Gary Harrison, K0BC
QCWA President
see our website at: <http://www.qcwa.org>
Ask me about our Scholarship Fund!

Date: Mon, 10 Apr 2000 01:34:26 -0400
From: Robert B Boughner <notajock@juno.com>
To: qrp-1@lehigh.edu
Subject: [67542] Need an answer
Message-ID: <20000410.013428.-134311.0.notajock@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Hi all

I am putting up a 50ft dipole. I am going to use it with my HTX 100. Since on high power it runs 25 watts. I had thought to use a ZM-2 but it doesn't handle that much power. Then I looked at Dan's Small Parts. His biggest kit handles only 20 watts.

So my question is, where can I find a suitable antenna tuner that will handle the power?

Bob
WA9LSD

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 09 Apr 2000 23:36:36 -0600
From: Larry East <w1hue@amsat.org>

To: qrp-1@lehigh.edu
Subject: [67543] VFO Temperature Stabilization
Message-ID: <3.0.5.32.20000409233636.009288e0@mail.ida.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

A short article on VFO temperature stabilization is now on the ARCI web site:

<http://www.qrparci.org/CUB3.html>

This was written specifically for the MFJ QRP-Cub, but it contains info that is generally applicable.

72/73, Larry W1HUE

Date: Sun, 09 Apr 2000 23:44:19 PDT
From: "Doug Hendricks" <ki6ds@hotmail.com>
To: qrp-1@lehigh.edu
Cc: w5jay@alltel.net, kmike@alltel.net
Subject: [67544] ArkieCon: KI6DS Report, Long
Message-ID: <20000410064419.71582.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Wow!! What a fantastic weekend. I left Thursday evening and got into Ft. Smith about 11:30, where JayBob Bromley picked me up and took me to his house where I spent the night. Friday, we got up and started to kit the new Ft. Smith QRP Club Kit, the Paddle/TiCK, which is a paddle that was based on an original design by Wayne McFee on the NorCal page. I saw Wayne's Paddle, and designed one similar to it only iambic, for the Paddle/TiCK. But this one also has a TiCK keyer built on to the paddle, so the entire unit is self contained. The TiCK keyer circuit is built Manhattan style. The new Ft. Smith kit will sell for \$10, and includes all parts necessary to build the paddles and the TiCK keyer. The TiCK 1 chip is even included in the deal!! To order, send \$12, 10 for the kit and \$2 postage to:

Jay Bromley W5JAY
9505 Bryn Mawr Circle
Fort Smith, AR 72908-9276

Please include a self addressed mailing label, and mark the envelope P-TiCK on the outside. Thanks, Jay and the boys will appreciate it.

Ok, back to the events. We kitted up 73 of the Ft. Smith P-Ticks for Arkiecon on Saturday. JayBob had already done the VE3DNL kits. Soon it was

time to pick up the first speaker at the airport, Dave Gauding. Dave flew in from St. Louis via Memphis, and had his famous duffle bag full of antennas. The next to arrive was Jim Duffey, Dr. Megacycle from Albuquerque. We went back to JayBob's house, and I showed the the neat little balanced line tuner that Charlie Lofgren, W6JJZ designed for me. I put it in a small box made from circuit board to match the SMK-1, and it was only 2.75 x 3 x 1.5" in size. Perfect for a qrper. I had a small problem with the tuner, and asked Dave and Jim to help me figure it out.

First we decided to build a NorCal Doublet for JayBob, but this one would use the WE6W feedline made from 4 conductors of ribbon cable. Jim suggested that I make the legs 22 feet per side, as that would tune 10 - 40 meters and have a lobe coming out at right angles to the antenna orientation on all bands. The same pattern sure helps. Picture three grown men, grinning like crazy, laughing, having fun, and making an antenna. We finished the antenna, then made JayBob climb his own tower to put it up. The next step was to use the MFJ antenna analyser to check out the tuner and see if it would tune the doublet. No dip, then, Jim touched the tuner case to the edge of the analyser bnc, and bingo, dip of the needle. Ahhhh, Doug forgot to ground the bnc connector. (Used a bnc with a rubber washer and did not have a path to ground for the tuner to rig connection.) I hate it when I do something dumb like that. Jim and Dave thought it was hilarious. JayBob took the tuner in the house and cut the rubber washer out, tightened the bnc, and even put a strap from the back of the back panel to the front of the back panel to make sure we had a good ground on the bnc.

This was when we needed a camera. It looked like Curly, Moe and Larry were in JayBob's back yard trying to test the tuner. Dave was running the tuner knobs, I was holding the tuner (Dave was driving the tuner with both hands, grin) and Dr. Megacycle was holding the MFJ 259. It worked like a champ now, and I felt a lot better.

Soon Jay had to go to the airport and pick up the next speaker, Glen Leinwebber, VE3DNL. What an honor it was to meet such a gentleman, and a brilliant mind. Glen is famous for his work on the Elmer 101 series and for his design of the VE3DNL, but we had never met. What a great guy.

Then, Paul Harden and Jan Medley pulled in from Socorro, NM. They drove. Paul now knows how far 743 miles is, grin.

It was time to go to the Ribeye Steak House where Keith Newman, K5YCM, had arranged for the No Host dinner featuring fried cucumbers and turkey fries for appetizers. Boy were they great. 33 qrpers showed up, and we had a lot of fun. The Hanging Judge, Kelsey was there, and he was the life of the party. Everyone had a good time, and after dinner most of us went out to see the facility where Arkiecon was going to be held.

The Knights of Columbus hall was beautiful. A huge room for the flea

market, and a 40 x 60 ft. room for the QRP forums. It even had a bar!! Everything was set, and we went back to the hotel, and wow what a great facility. The rooms were \$42 a night, but what rooms. This place is nice. Great staff, friendly and they were very nice.

Arkiecon started Saturday at 9:00 and I was the first speaker. My talk was on how to build a qrp station for \$50, which consisted of a SMK-1 transciever for \$30, the Ft. Smith P-TiCK paddle keyer combo for \$10, the W6JJZ NorCal Balanced Line Tuner for \$9 in flea market parts and a NorCal Doublet antenna. I built the antenna during my talk, stepped off the measurements, and built the whole thing is about 5 minutes. At the end of my talk, I gave away the station, and JayBob Bromley was the winner. He will give it a good home. The station consisted of the prototype SMK-1, the prototype P-TiCK, and the prototype W6JJZ NorCal Balanced line Tuner, so JayBob has a first there.

Paul Harden spoke next on propagation to a full house. We had about 125 qrpers show up, and they were a great audience. Paul's talk was very well received.

Dave Gauding was next, and what a great job he did. Dave not only talked about antennas, he brought them along and set them up for the guys to try out, and they did. They worked a bunch of stations, including some DX with the neatest little portable antennas. Guys, don't worry, Dave is coming to Pacificon this fall, and he will give one of the talks and has agreed to set up his antenna farm for us out on the west coast. Should be exciting. What was neat was after Dave's talk. He was surrounded by eager qrpers with questions, and he didn't even get a chance to go for lunch. Jim Duffey and I rescued him with a hamburger and coke.

After lunch, Jim was up, and yes he explained about the microwave pvc test myth, and also suggested a couple of more uses for microwaves that your wife probably would not appreciate. He also talked about antennas that work, and some that don't, antennas for beginners, and antennas that beginners should avoid. It was great talk, and if you ever get a chance to hear Dr. Megacycle, you have to do it. He is one of the great qrp speakers. Lots of fun to listen to, and you learn a lot.

Glen Leinwebber, Mr. VE3DNL Marker Generator himself was the next speaker. Glen gave us a whole list of ways to save our batteries while operating portable. He covered hooking up headphones, warming the battery, resonant speakers, and even a couple of circuit enhancements that he is working on. Glen has a circuit that is 90% efficient!! He did an excellent job, and the guys were very interested in his talk.

The final speaker was Paul Harden, filling in for Chuck Adams. I had the pleasure of introducing Paul, and got to thank him and recognize him publicly for not only printing the upcoming winter issue of QRPp, but laying

it out and editing it. He took over for me when I was ordered by my wife and doctor to not work on qrp for 3 months. Chuck recently underwent angioplasty, and was unable to attend. We all missed him and know that he wanted to be there, but just could not make it. We'll see him at Ft. Tuthill. Paul talked on the electronics of a regen receiver, using the Desert Rat, which he designed. Another great job.

Then we drew for the grand prize and it was won by a lady from Lincoln, Nebraska who drove down with her husband Tom. I can't think of her name, but I am sure that JayBob will fill me in. Her husband was excited, but she did promise to build the kit, the K2. Vern Wright also donated a PW-1 portable antenna to go along with the K2 purchased by the Ft. Smith QRP Group as a grand prize.

All of the days events, the speakers, the grand prize were made possible by the funds that they raised from selling the VE3DNL Marker Generator kits. A great job by Jay Bromley, Kelsey Mikel, Win Dooley, Keith Newman, Kathy Vines and I know a whole lot of other people.

It is late, I'm tired and I'll post more tomorrow about the people that I got to meet. What a thrill it was to meet so many of the people that I see here on the list. 72, Doug, KI6DS

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Mon, 10 Apr 2000 02:40:16 -0400
From: Jim Stafford <w4qo@amsat.org>
To: qrp-1@lehigh.edu
Cc: w3irz@att.net
Subject: [67545] [Dayton] Room to Share
Message-ID: <38F1774F.7BE9AF41@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mike Branca, W3IRZ, one of the speakers at the FDIM Dayton tells me he has a room but would like to share it with someone.

Pls contact Mike directly at: w3irz@att.net

While I'm here, the Dayton FDIM web site has been updated to include all kinds of new details: <http://www.qrparci.org/fdim64.html>

Bigger - better - more FUN! FDIM2000

--

Jim Stafford - W4Q0

[Image]

Date: Mon, 10 Apr 2000 03:02:56 -0400
From: john@neknetwork.com
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [67546] antenna ice - thanks!
Message-ID: <38F17CA0.32D9E869@neknetwork.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Man, what a list!

Thanks to everyone who responded directly and to the list.

The consensus was to go ahead and operate, and use the tuner to keep the rig happy.

I did just that. Using my SW80+ at 2 watts I netted 0 QSO's, and using my Icom 701 at 100 watts I had the same luck! I gave up after about 45 minutes swooshing around listening for CQ's and calling for a while myself. I did notice that rcv'd sigs were a little weaker then normal, which I hadn't noticed as much before.

Still snowing, shaping up to be a real nasty looking spring day here in the NE. 72,

John, KB1ENS [staying warm]

--

John Wagner - john@neknetwork.com
Web page: <http://www.neknetwork.com>
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C/C++, Perl, CGI, RDBMS, Web site creation and
Network Administration

Date: Mon, 10 Apr 2000 07:14:28 -0400 (EDT)
From: oxf01@maxmail.co.uk
To: qrp-l@lehigh.edu
Subject: [67547] Help with Newport Oscilloscopes

Message-ID: <000410071428I6.03325@webb3.iname.net>

MIME-Version: 1.0

Content-Type: Text/Plain

Content-Transfer-Encoding: 7bit

From: "Thomas Martin" <t.h.martin@ieee.org>

Subject: [GQRP] SCOPE Newport NDO 20 CB / 20 AP manuals needed

Hello everyone,

I am lucky I got two 2x20MHz digital storage oscilloscopes of NEWPORT

No. 1 is a NDO 20 CB

No. 2 is a NDO 20 AP.

Both have an error at the same board:

BOARD: 0080 HV.PCB

I think both scopes are abt 12years old. It seems to be the final amplifier of the beam system where transistors and several resistors are burned. The values of the parts may not be read any more. So I need some help.

At first I'll need the circuit and parts placement diagram of the mentioned board. Would be great if someone could attach it to a mail or fax it to me (for fax please e-mail/phone me in before so that the modem will be prepared).

In general I would also be very interested in copies of the original manuals.

Thanks in advance

73

Thomas, DF7TV

Thomas Martin, DF7TV,

Bernsteinstr. 32 B,

70619 Stuttgart,

Germany, phone: +49 711 762519

e-mail: df7tv@qsl.net, t.h.martin@ieee.org

G-QRP #10082, DL-QRP #948, DARC DOK P 11, ARRL, LOC: JN48OR

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Date: Mon, 10 Apr 2000 06:50:44 -0500
From: "Faith III, Don C" <FaithD@mail01.dnr.state.wi.us>
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>
Subject: [67548] RE: TT C22 pricing?
Message-ID: <54F85D7F6DE2D01184EF0000F80495350272A073@MAIL04>
MIME-Version: 1.0
Content-Type: text/plain

Hello everyone.

Thanks for all of responses regarding the Tentec Century 22 pricing and the advice not to sell at a swapfest. Friday evening after getting your e-mails, I decided to use the rig a bit and enjoyed how it performed.

During normal (non-contest) conditions, it is a nice rig that performs well. When the band is busy, such as on Saturday during the QRP ARCI contest, it doesn't provide enough filtering. When it is like that, I'll stick with the K2.

After using it a while and reading on Paul Valko's site, I've decided to hang onto it for the present. It is a classic and worth having. As stated in my note, I was "considering parting with it," and hadn't decided yet.

Four years or so ago, I purchased the poorly working (no output, v. poor receive) combination (both PS and rig) for \$175. The finals were toast and whomever had repaired it last hadn't read the schematic correctly: They had miswired the connections to final transformer and shorted it (no wonder the finals were toast!!!). Once repaired (about \$30 in parts later), it has continued to work well.

With regard to pricing, the estimates ranged from \$205 (with PS) or \$175 for the rig alone to \$350 for the combined rig and PS. Most estimates were in the \$275 to \$325 range (including the PS). The rig doesn't have the crystal calibrator or keyer but it does include a relay module for keying an amp.

Many advised me not to sell it at the swap fest and I took their advice. I did see a nice looking TT Argosy II (525D?) there: No PS, the guy wanted \$425. I had an Argosy I but sold it to make room for and help finance my K2. (This was somewhat necessary to comply with my wife's general requirement on boats (kayaks) and radios: If I buy one, I have to sell one. Fortunately, I am able to stretch that occasionally and both the fleet and shack expand slowly). My wife (N9VWJ) just passed her 5 WPM (to become a last minute Tech+) and perhaps she will become more interested in the code

as well.

73 (es 72) de N9WR, Don C. Faith III (N9WR)

Date: Mon, 10 Apr 2000 08:00:08 EDT
From: n5ib@juno.com
To: qrp-1@Lehigh.edu
Subject: [67549] OPERATING: Tuesday - USS Kidd anniversary of kamikaze attack
Message-ID: <20000410.065923.4663.0.N5IB@juno.com>

The USS Kidd museum ship, W5KID, will be operating on Tuesday April 11 from approximately 1400Z until 2200 Z to commemorate the anniversary of the 1945 kamikaze attack off Okinawa.

Operation will be mostly ssb and QRO. Look near 14200 and 28400. If we get to do some CW it will be near the QRP frequencies on 20, 15, 10 meters. My shift will be after 1900Z.

As on all of the "special dates" operations W5KID will offer a picture QSL (send a business-sized SASE - 33 cents postage), or a QSL and certificate (send a 9x12 SASE - 55 cents postage).

If you've already worked the ship for a certificate back on Feb 28 or Mar 28, there's an endorsement sticker available. Just send a small SASE.

You can QSL via W5GIX. In which case send \$1 if you want the certificate.

OR - QSL via me, N5IB, and skip the \$. - Special offer to QRP-Lers :^)

72
Jim N5IB

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<http://dl.www.juno.com/get/tagj>.

Date: Mon, 10 Apr 2000 07:26:29 -0500
From: cd25d@rhapsody sails.com (Bill Slater)
To: "qrp-1" <qrp-1@Lehigh.EDU>
Subject: [67550] FS SG 2020
Message-ID: <002f01bfa2e8\$001742a0\$2f76130c@willies>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just got it back from SGC due to failed BFO. Completely check out,
Repaired, & tested. Firmware v1.06. small & compact radio. in MINT
condition.
Includes RS DSP 40 also MINT! \$575 firm. Cashiers/Money Order & I'll
ship CONUS.

Bill
KD5GCX
S/V Rhapsody
<http://www.rhapsodysails.com/sailing.html>

Date: Mon, 10 Apr 2000 08:28:10 -0500
From: "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>
To: "'Al Patrick'" <arp@inet4u.com>
Cc: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [67551] RE: 10 m SSB Freq?
Message-ID: <000301bfa2f0\$9dc6de90\$ef5d6f81@v8.uthscsa.edu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'm sorry, I hadn't noticed a request for a Novice band calling frequency.
;)

73/
Kevin, WB5RUE

Date: Mon, 10 Apr 2000 09:26:03 -0400
From: "AI2Q Alex" <ai2q@ispchannel.com>
To: <tscott@eni.net>
Cc: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [67552] RE: Board Etching Techniques
Message-ID: <000a01bfa2f0\$52627c20\$5c32a7d0@ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks Tom. If you ever spot that article, would you tell me where it appeared? I'd sure like to read it.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: Tom Scott [mailto:tscott@eni.net]
Sent: Saturday, April 08, 2000 1:03 AM
To: ai2q@ispchannel.com
Subject: RE: Board Etching Techniques

There is a pretty good article in a recent issue of one of the photo magazines (forget the name, my dad gets it) that did a thorough study of the photo chemicals in septic question and determined that in normal amateur amounts it was insignificant, in fact many of the chemicals were actually good. I suspect that etchant in residential amateur amounts are precisely as insignificant. Stomach acid is one of the most powerful acids known, I'll leave it to your imagination to imagine what bodily condition is probably fairly comparable to disposing of etchant in septic.

- Tom

?Tom Scott - Wyle Electronics - KD7DMH
10300 SW Nimbus Ave #PB, Portland, OR 97223
503-603-1931 - Tel 503-684-6620 - Fax
503-703-2032 - Cell

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of AI2Q Alex
Sent: Thursday, March 30, 2000 6:58 AM
To: Low Power Amateur Radio Discussion
Subject: RE: Board Etching Techniques

In line with this discussion on board etching, can anyone comment on the effects on a septic system due to pouring small quantities of waste ferric chloride in there?

Similarly, does anyone have experience with the effects of photographic chemicals (developer, stop bath, fixer) on septic systems?

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

Date: Mon, 10 Apr 2000 09:29:32 -0400
From: "AI2Q Alex" <ai2q@ispchannel.com>
To: <oxf01@maxmail.co.uk>
Cc: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [67553] RE: Help with Newport Oscilloscopes
Message-ID: <000b01bfa2f0\$ced24240\$5c32a7d0@ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thomas:

You may be able to trace out the original schematic from the board traces and wiring. Then you might try using the types of high-voltage transistors Heathkit used in its solid-state scopes. I have those part numbers listed if you're interested. The important thing is to achieve a perfectly balanced dc amplifier so that the spot will be centered both vertically and horizontally.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of oxf01@maxmail.co.uk
Sent: Monday, April 10, 2000 7:14 AM
To: Low Power Amateur Radio Discussion
Subject: Help with Newport Oscilloscopes

From: "Thomas Martin" <t.h.martin@ieee.org>
Subject: [GQRP] SCOPE Newport NDO 20 CB / 20 AP manuals needed

Hello everyone,

I am lucky I got two 2x20MHz digital storage oscilloscopes of NEWPORT

No. 1 is a NDO 20 CB
No. 2 is a NDO 20 AP.

Both have an error at the same board:

BOARD: 0080 HV.PCB

I think both scopes are abt 12years old. It seems to be the final amplifier of the beam system where transistors and several resistors are burned. The values of the parts may not be read any more. So I need some help.

At first I'll need the circuit and parts placement diagram of the mentioned board. Would be great if someone could attach it to a mail or fax it to me (for fax please e-mail/phone me in before so that the modem will be prepared).

In general I would also be very interested in copies of the original manuals.

Thanks in advance

73

Thomas, DF7TV

Thomas Martin, DF7TV,
Bernsteinstr. 32 B,
70619 Stuttgart,
Germany, phone: +49 711 762519
e-mail: df7tv@qsl.net, t.h.martin@ieee.org
G-QRP #10082, DL-QRP #948, DARC DOK P 11, ARRL, LOC: JN48OR

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Date: Mon, 10 Apr 2000 10:18:31 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [67554] Re: 10 m SSB Freq?
Message-ID: <001d01bfa2f7\$aadd12a0\$2101a8c0@insydesw.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> I'm sorry, I hadn't noticed a request for a Novice band calling

frequency.
> ;)

Hmm, should that matter?? I mean, if we want to bring in potential converts instead of old 'established' HAMS, we should have a 'mindset' that includes 'newbies'. Not a mindset of old established operators.

Besides, old established operators should ALREADY know where things are, right?

Not that anything is wrong with old established HAMS... I'm sure there's LOTS of people that have spent a long time away from HF and might just now be considering a move back. Especially with the new rules change only 5 days away.

Mike

Date: Mon, 10 Apr 2000 09:28:06 -0500
From: David Heintzleman <pstrdave@kdsi.net>
To: qrp-1@Lehigh.EDU, antennas@qth.net
Subject: [67555] super loop
Message-ID: <38F1E4F6.E46D119D@kdsi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi there -
has anybody ever done an analysis with EZNEC or something similar on the type of antenna that RadioWorks calls the super loop?

Basically, it is a delta loop of 75% of wavelength, and an open quarterwave stub of ladder line for the second harmonic, so it's not a really a loop and it would appear to be a bi-square for the 2nd harmonic with some gain.

I would be interested to gain a sense of radiation pattern, etc, for such a 40 mtr antenna, on 40, 30, and 20 mtrs - anybody on board ever did such analysis?

Dave Heintzleman
K8BBM

Date: Mon, 10 Apr 2000 09:30:23 -0500
From: "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>
To: <myetsko@insydesw.com>, "'Low Power Amateur Radio Discussion'" <qrp-
l@Lehigh.EDU>
Subject: [67556] RE: 10 m SSB Freq?
Message-ID: <000001bfa2f9\$4f685fe0\$ef5d6f81@v8.uthscsa.edu>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I didn't have any "mindset." Someone asked for the 10-meter SSB calling frequency and I answered 28.600 which it has been as far back as I can remember. I never thought that the Novice sub-band does not include that frequency. There was no malicious intent on my part. Just because I've been a ham since before dirt was invented doesn't mean that I don't embrace any newbie that comes my way. My elmer had already been a ham 40 years when I got my ticket. He spent many hundreds of hours helping me get my ticket. Sadly that is almost absent with today's hams. What is also too prevalent with "today's hams" is that they look for reasons to complain about the "old hams."

73/

Kevin, WB5RUE

The truth is hate to those who hate the truth.

> -----Original Message-----

> From: owner-qrp-l@Lehigh.EDU

> [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of

> Mike Yetsko

> Sent: Monday, April 10, 2000 9:19 AM

> To: Low Power Amateur Radio Discussion

> Subject: Re: 10 m SSB Freq?

>

>

> > I'm sorry, I hadn't noticed a request for a Novice band calling
> frequency.

> > ;)

>

>

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> there's LOTS of people that have spent a long time away from
> HF and might just now be considering a move back. Especially
> with the new rules change only 5 days away.
>
> Mike
>
>
>

Date: Mon, 10 Apr 2000 10:35:42 -0400 (EDT)
From: "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
To: qrp-l <qrp-l@lehigh.edu>, eax@w3eax.umd.edu, Laurel ARC <larc-l@webtrek.com>, w7pxl@egroups.com, forsale-swap@qth.net, cw@qth.net, tentec@contesting.com
Subject: [67557] FS: Paragon, QRP, HF, VHF, tuners, PS, Palomar tuner-tuner, antennae,more
Message-ID: <Pine.LNX.4.10.10004101030240.20577-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I moved into this house seven months ago and still don't have control over my garage. In order to accomplish this, I need to sell MUCH of my ham gear. And no, I am not dropping out of ham radio, as my car is still quite the mobile shack - worked a few hundred Qs during last weekend's ARRL CW contest whilst driving from home to Salem, over to the coast, south to Waldport, and through the woods back to Eugene.

Anyway, here's my huge garage sale list. Enjoy. Forward this list at will.

HF RIGS (QRP and otherwise)

Ten-Tec Paragon 585, excellent condition. General coverage HF xcvr. Box, manual, mic, std. filters. \$950

Radio Shack HTX-100 10m SSB/CW mobile, good cond. w/box
\$125

Oak Hills Research "Classic," 20/40m QRP CW rig. Some scrapes but works well. Manual. \$170

Small Wonder Labs SW40 40m QRP CW rig w/painted factory case. Nearly

perfect condition, w/manual. \$80

Norcal 40A 40m QRP CW rig. Excellent cond. \$90

Ten-Tec 1340 40m QRP CW rig. Excellent cond. w/manual.
\$80

Ten-Tec 1340, not quite up to snuff. \$70

Emtech 40m QRP CW rig. Manual is somewhere around here.
\$80

ANTENNA TUNERS & WATTMETERS & OTHER STUFF

MFJ-1621 porta-tenna - good shape, whip is around here somewhere.
Permits operation from hotel room, hilltop, etc. on what MFJ claims
is 40-10m. Sells new for \$89.95, asking...
\$66

Palomar PT-340 Tuner-Tuner - for pre-tuning your antenna audibly.
Excellent condition, sell for \$99 new, asking \$65. Req. 9V battery.

Autek WM-1 computing wattmeter PEP/avg computing wattmeter. Unit is in
near-perfect condition physically but I seem to remember something about
it not working last time I tried it a year ago. Sells for \$133 new,
asking \$85 as no wattmeter is that hard to fix...I just don't have the
time to think about it right now. \$85

Radio Shack digital wattmeter, MTA-20. New in box. Works down to a watt
(use one myself for QRP) and up to 2kW. Part #21-527.
\$50

Barker & Williamson VS300A, handles random wire, balanced line and
coax-fed antennas. Excellent condition, probably have manual lying
around. \$72.

MFJ-934 combination 300w antenna tuner / artificial ground. New in box.
New price is \$169. Theoretically eliminates RF current on equipment
chassis by creating current sink on either actual ground wire or single
counterpoise thrown out window, laid along floor, etc.
\$130

Nye Viking MB-VA top of the line antenna tuner. Handles many kW. Sells
new for about \$850. Excellent condition, rarely used over a few watts.
\$525

AEA QT-1 antenna tuner w/wattmeter. Someone once put too much power through it and the some of the coil forms, well, melted. It's pretty much the same as B&W Airdux. However, the coil still looks like a coil, and I've used it successfully on HF and 6 meters at QRP levels. The rest of the unit is in excellent shape and the metering works fine. Has a cross-needle meter. \$50

VHF radios

Alinco DR-610 2m/440 mobile. Excellent condition w/box, manual, \$360

Radio Shack HTX-212 50w 2m mobile FM, excellent condition.
\$150.

Radio Shack HTX-242 50w 2m mobile FM, excellent condition.
\$160.

Radio Shack HTX-202 2m handie talkie - great ham-band-only RX. Excellent condition. Comes w/battery, charger, antenna, and manual. Have one with box and two without. \$110 ea.

Alinco DJ-F1T 2m HT w/extended RX range. Excellent condition. Comes w/battery, charger, antenna, and manual \$140

Yaesu FT-470R 2m/440 HT, excellent condition w/battery, charger, antenna, and manual. Extended receive. \$250

Yaesu FT-50R w/FTT-12 DVR keypad. Excellent condition w/box, etc, \$240

Radio Shack PRO-2039 base scanner, cell blocked, exc. cond. in box,\$160

Radio Shack Pro-51 handheld scanner, cell blocked, exc. cond. in box,\$160

VHF amps & accessories

Comet CF-360 HF/VHF duplexer, break point is 30 MHz.
\$45

Diamond MX-72DN (N on UHF) - 2m/440 duplexer \$32

Larsen AD2/70 2m/440 duplexer - UHF connectors \$25

Radio Shack HTA20 30w 2m amplifier, in box \$50

Radio Shack HTA20 30w 2m amp, exc. cond. \$45

Non-working Radio Shack HTA20, don't remember why not wkg.
\$20

Mirage B23 30w 2m amp, on/off switch installed, VG cond.
\$55

RF Concepts VHF-1-60 2m HT amplifier, 1w in gives 60w out.

\$160

Power Supplies

Lambda LNS-P-12, 12VDC @ 14A, good cond.	\$75
Lambda LM-D12 12VDC @ 10A, screws missing. SIX pass xistors.	
\$50	
LH Research, 5V @ 150A & 12V @ 10A.	\$100
Tripp-Lite PR-7B 12VDC @ 5A (7.5A surge)	\$35
Video camera power pack - 12 VDS @ 2A w/cig. ltr. socket	
\$35	
Mitsubishi 12VDC @ 800mA underrated power supply	\$25
TrippLite PR-4.5A 12VDC@3.5A (4.5A surge)	\$27
Astron RS-35A 12VDC@25A (35A surge)	\$120
Astron RS-20A 12VDC@16A (20A surge)	\$70

Aaaarrrrgh! After 1000s of mobile QSOs the unthinkable happened! Sometime over the weekend, something in my trusty IC-706 popped and my transmit power is at zero at all frequencies! Seeing as how it's my primary station and what I do when driving, I'm working on getting it fixed and back to "normal..."

If you have a 706 I might consider a trade as I wouldn't mind having a SPARE rig...

Offers considered but no trades, please - that's how I got into this situation :) All prices are plus shipping.

Scott Rosenfeld ARS N7JI
541-684-9970 Eugene, OR Land o' much rain
If you find me on the air, I'm probably in my car
ham@w3eax.umd.edu <http://w3eax.umd.edu/~ham>

Date: Mon, 10 Apr 2000 10:53:07 +0200
From: lenny wintfeld <w2bvh@home.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [67558] Lightning protection
Message-ID: <38F19673.5FB24442@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi!

Does anyone know of a good source (retailer) of a lightning protection device (arrester or gdt) I can mount on a ground rod out in the yard and attach to 450 ohm ladder line?

Best 73's

Lenny w2bvh

Date: Mon, 10 Apr 2000 04:32:49 -0700
From: Brian Kassel <bkassel@dancris.com>
To: QRP-L <QRP-L@lehigh.edu>, azqrp <azqrp@extremezone.com>
Subject: [67559] Contest: K7RE Results ARCI Fall Party
Message-ID: <38F1BBE1.D259E4D6@dancris.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gangue:

Well, the CW in my ears has subsided enough for me to post my results. Propagation, as predicted was spotty. There were several times on Sunday when signals were totally nonexistent on all 3 top bands.

I did manage to get called by 6 different Europeans though. It's a bit difficult to work EU from here, and these folks were all running less than 5W!

I entered as a top 3 band class, as 40 meters at this QTH doesn't yield many QSO's for me, and I just hate staying up late at night ;)

High points were getting called by AK 3 times on 2 bands, and HI as well. Jim, AL7FS must have great ears. The usual high scoring stations were in there too including my Mentor and contest Elmer, Bob N4BP. Interesting how his signals were consistently down from his usual levels. I also worked Wayne, N7KR, Mr. K-2 and father of Mojo ;)

Maybe it's my imagination, but the quality of contest operation among us QRP types seems to increase with every contest. Thanks to you folks for hanging in there.

Also, thanks to the ARCI folks who create, manage, and score these events. I know how much work it is, been there, done that.

My score is roughly 6 times higher than last year, even with the questionable propagation. The only equipment change here was the use of

the K-2. Could this be further proof of the now-famous K-2 Mojo?
Of course having watched N4BP do his contest thing for hours in C6A land
had to have a very positive effect too.

Lessons learned: Even the best software can't dupe unless Brian enters
the call sign correctly ;) Thanks to the 3 stations that set me
straight. I went out and got new glasses already, so maybe I just need
a finger transplant? ;)

Rig: K-2, 4.9W
Ant: 3 El Generic triband beam, up 35 feet.
Computer software: Home Brew QRPDUPE.

Exchanged Information: K7RE RST AZ NR 3623

Hours of Operation:___24_____ Hours.

Band	QSOs	Points	SPC's
160	0	0	0
80	0	0	0
40	0	0	0
20	214	879	47
15	132	543	37
10	48	199	22
Totals	394	1621	106

Total Score: 1,202,782 Points

Date: Mon, 10 Apr 2000 11:11:15 EDT
From: K5KW@aol.com
To: qrp-l@lehigh.edu
Subject: [67560] ArkieCon
Message-ID: <e1.2ee7a46.26234913@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Doug, Nick, and the others who have written here
raving about ArkieCon are absolutely right.

All comments about the speakers were right on.
You folks here in Mid-America (heck, anywhere!) who
didn't attend, missed a truly great gathering. Watch for
the dates of ArkieCon 2001, and make the trip.

It was my first time to meet the Arkansas organizers

of the event, and they are as much of a hoot as the speakers are. The "Arkies" also know how to put on a hamfest and QRP forum. (When an life-long Okie admits that he learned something from a neighboring Arkansan, you *know* it had to be good!)

72,

Don, K5KW

"From Meadowlark Aerodrome on the rippling shores of Lake Eva, in the heart of the Morris-Boynton metroplex of east central Oklahoma, where every day is a sunny day".

Date: Mon, 10 Apr 2000 10:15:07 -0500
From: "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>
To: <w2bvh@home.com>, "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [67561] RE: Lightning protection
Message-ID: <000201bfa2ff\$8eabfee0\$ef5d6f81@v8.uthscsa.edu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Polyphaser has one of the best. <http://www.polyphaser.com>

> -----Original Message-----

> From: owner-qrp-l@Lehigh.EDU

> [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of

> lenny wintfeld

> Sent: Monday, April 10, 2000 3:53 AM

> To: Low Power Amateur Radio Discussion

> Subject: Lightning protection

>

>

> Hi!

>

> Does anyone know of a good source (retailer) of a

> lightning protection

> device (arrester or gdt) I can mount on a ground rod out in

> the yard and

> attach to 450 ohm ladder line?

>

>

Best 73's

>

>

> Lenny w2bvh
>

Date: Mon, 10 Apr 2000 09:05:51 -0600
From: "Rod, N0RC" <n0rc@qsl.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [67562] Re: Help with QRP-ARCI QSO
Message-ID: <043801bfa301\$85bfd660\$cb101004@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks:

Just too many respondents (16!) to answer each individually--Thanks
one and
all for the help.

What threw me was the use of letter "o" as a zero. I had not heard
that before, always heard the long dash or "T" used as a zero. As is
PWR 1TTW, (do people really use that much power? ;-) or PWR 1TT MW. Oh
well, smarted now for next time.

And to clear up confusion (mine) I did copy 1ooNN, not 1ooTT as I
posted later.

72/3 Rod, N0RC -- Fort Collins, CO

----- Original Message -----
From: Rod, N0RC <n0rc@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Sunday, April 09, 2000 1:29 PM
Subject: Help with QRP-ARCI QSO

> I worked a weak station in Maine, K0ZK who was sending 1ooNN for the

Date: Mon, 10 Apr 2000 11:34:12 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [67563] Re: Lightning protection
Message-ID: <01dd01bfa302\$3ccd1ac0\$2101a8c0@insydesw.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Hi!
> Does anyone know of a good source (retailer) of a
> lightning protection
> device (arrester or gdt) I can mount on a ground rod out in
> the yard and
> attach to 450 ohm ladder line?
>
> Lenny w2bvh

Have you considered some of the home-made devices from
the ARRL books? They are pretty simple to build and from
a practical standpoint I haven't heard of many commercial
units that work much better. It's just the convenience of buying
instead of building.

Hmm, maybe a good point for discussion. Who HAS built
these devices, and how do they work? I know, you're still
alive, so they must have worked, right? Seriously, has
anyone seen evidence that their home-made device has
worked and 'fired' so to speak? Like arc-over indications
or such? And was the equipment connected at the time?

Mike

Date: Mon, 10 Apr 2000 09:11:46 -0700
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [67564] ARCI QSO Party quick summary.
Message-ID: <38F1FD42.BAD9009@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang, gotta run so am making a quick post on
my score.

K2@5 Watts, multi-band, Blue Racer Bug, ZM-2,
and Folded 40 Meter dipole up 30 feet max...

40 Meters: 222 Pts. 23 SPC
20 Meters: 93 Pts. 15 SPC
15 Meters: 257 Pts. 34 SPC
10 Meters: 62 Pts. 12 SPC.

Points * SPCtotal* Pwr_mult=634 * 84*7=372,792

Not bad for half the signal going over the ocean here on
the west coast. Had great fun. Memory keyer kept the
bug fist from tiring. All exchanges sent manually but the
CQ'ing was all K2.

72/Ed we6w

--

72/Ed we6w; A-1 OP; SOC#63; QRPL#1068
<http://www.qsl.net/we6w> Santa Rosa, CA
Brain, only as strong as its weakest think.

Date: Mon, 10 Apr 2000 16:57:45 -0000
From: "Mark Hogan" <mhogan@email.msn.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [67565] Re: ARCI QSO Party quick summary.
Message-ID: <001b01bfa30d\$e5b2b5e0\$9ee90181@cityweb.gov>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

WOW Conditions were fun...QSB!

Rigs SST-40 external TIC3 /NC-20 TIC3 Mobile IC730 (2 contacts)
Keyer TE NE KEY desk job
Antenna That 132' inverted U thing fed with 300 ohm and rg- 8 I made up
sorry Dr. Megacycle, no balun to transition it, but hey it works)

Thanks to all the people who heard my 1 watt SST on 40 last night, and my
NC-20 at 1 watt today. Contacts that surprised me after it's done are: Ed
Loranger...he had to slow down for me, no way I go 60wpm! Adrian Weiss from
SD, wish it was on 30m!

I had lots of FB 1w compliments, had to be my concoction of an inverted U
that I posted a few weeks ago, that baby works great, I had good sigs both
bands.

All in all I worked 23 States on 2 bands for 32,732 points. I don't know how good that is, I hunt and attack. This was my first contest other than the ARS Sprints, I am a little more comfortable with the cw now, even called a few before I listened for their number and state.

I asked a couple to QRS, Thanks! Everyone was great, most slowed to my speed upon contact, you can hear those keyers slowing as they start sending. I'm gonna practice my sending could have had more points if I sent 950mw for my SST, but 1w seemed to take less time, oh well.

See ya'll on the bands

Mark Hogan N50BC

SST-40 / 38s Speed-X Bug

NC-20 / FT847 NorCal Keyer

Zombie 660, SOC 185, G-QRP 4972, all that junk...

Date: Mon, 10 Apr 2000 12:15:16 -0500
From: "Jay Bromley" <w5jay@alltel.net>
To: <qrp-1@Lehigh.EDU>
Subject: [67566] ArkieCon Great Time !
Message-ID: <027d01bfa310\$84391180\$229b66a6@w5jay>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Wow,

When George Heron posted he needed a few days to recoup I knew I was in trouble. The hams in the QRP fraternity came through again. ArkieCon was a huge success. I can't thank the attendees and the speakers enough in making ArkieCon a great event.

When I picked Doug up from the airport on the last flight in from Dallas, the first complaint was the ride was too smooth. He sure missed his Rodeo Ride this year! We went to my place and finally called it quits around 2:00 a.m.. Doug sure got accustom to Arkie life and slept right through my son getting ready for school. I was listening to one of the rigs he brought with him and it was 9:00 a.m. before I saw him stirring around in the house. Boy Doug, Arkie life sure agrees with you, grin.

By the time I got Doug moving good we had just enough time to make it to the

copiers and head to the airport to pick up Dave Gauding. If you are thinking of having or starting a QRP event this is one guy you need to jump on to get! Dave is the ultimate class act and is a ton of fun to be around. There was more stuff going on around here and the QRP activities hadn't even started yet. Doug started kitting Fort Smith's newest paddle kit the "P-Tick". More on this later. We were bugging Doug's kitting so he told Dave and me to go pick up "Dr. Megacycle" Jim Duffey so he could kit in peace. Everyone who ever meet Jim, knows he is the life of the party. When we got back Doug had kitted around 80 kits and the next thing I knew I was outside watching the three of them build an antenna and then they had me climbing my tower without a belt. Comments from Mr. Hendricks about blocking out the sun where most appreciated!!

While all of this was going on I had completely forgotten to pick up Mr. VE3DNL, Glen Leinweber (pronounced Line-weber). To make matters worse I forgot to bring Doug so Glen would be able to recognized us. It turned out to be no problem, Glen was standing there at the front door waiting for me. Very nice looking gentleman and later I found out in addition to being a great QRP'er he is also a Cyclist. Well I was ten minutes late in getting Glen, but my house is only five minutes from the airport, hamfest, and the Guest House motel.

By the time Glen and I got back to the three Musketeers it was time to head over to the Rib-Eye so we could load up Doug with some of Keith's, K5YCM, turkey fries. When we arrived, in the parking lot was my high school friend Curt, KI5AK all the way in from Houston. Before long the back room was filled to capacity with around thirty folks. Man that Doug when he gets away from JoAnne can sure put away the food. I couldn't believe how far people had traveled to get to Fort Smith's ArkieCon. Paul Harden and Jan had just pulled into the Fort at the start of the Rib-Eye event to make our group complete. The high light of evening was when "Hanging Judge" Kelsey, KK5KU, got in a little revenge when Doug got up to go to the restroom. The quick thinking "Judge" grabbed Doug's chair to wedge restroom door to lock Doug in. While Kelsey was lifting the chair he wiped out one of the light fixtures slinging glass in peoples food and down their shirts. I am happy to report no one died of glass poisoning!

Saturday morning came to soon for me and by the time I got all the QRP stuff loaded I was late again picking up the gang. I was sure by now Glen was wondering what he had gotten into. The moment we hit the building things shifted into QRP HIGH GEAR! I couldn't get over what was going on and didn't have time to worry about anything going wrong. Even though Judge Kelsey and I have done many forums in the past I was ready for what was going to happen. Keith had set up a fabulous speaker setup for our guest and I wasn't use to hearing my own voice. Never did get use to it. Thank God for CW! As I tried to introduce Doug I wasn't prepared for all the camera flashes going off. Doug is one of my heroes and I had rehearsed in my head over and over what I wanted to say. I just didn't make it, but I

don't think anyone else in audience knew. At least they and Doug were most kind about it!

Doug's talk was great! Complete with showing the audience how to build a station for \$50. A neat highlight was when Doug was demonstrating on how to build NorCal Doublet and had to explain what all that red fluid was coming from the ribbon cable by sticking his finger with his knife. Doug reports the red fluid is worth 5dB of gain to your signal. I think most of the attendees are in agreement on passing the extra gain the red fluid causes. Then with Jim Duffey's help Doug played a high low game where I was the winner of Doug's \$50 station. I haven't made any contacts on the SMK-1 rig yet but I sure enjoy monitoring on 40 meters with it. The NJQRP case for the SMK rig is very neat. Doug's tuner that he built is also very slick and red stuff that Doug added to it matches the copper plating very well. It will match a balanced line antenna 40-10 meters with no hassle at all. Thanks Doug!

Paul Harden was next with "Propagation" I have always enjoyed all of Paul's subjects. He is one of the most personable speakers going. He had a lot of people coming up to him afterwards asking questions. There was a big solar event in progress as Paul was coming into town. Paul had updated handouts and graphs on this event that were less than 12 hours old. He explained how this event would effect us over the next few days. There were a lot of new faces that have never heard Paul's forums before here in the Midwest. All weekend long people would stop me in the hallway and comment on how great Paul's talk was. I want to thank Paul for driving so far to support ArkieCon.

Next was David Gauding. Boy what a treat his Pretty Good Antenna forum was! We have a lot of inactive hams here who have been unable to get on the air because of where they live. As many of you know David is one of the most active QRPers in the past 18 years and until recently has never had a yard to put an antenna in. Dave inspired several apartment dwellers to go home and set up different designs of antennas to get on the air with. This is really great! Instead of being a list lizard wishing and waiting for the perfect situation before getting on the air, these guys will now find out the joy of making contacts from a situation they thought was impossible. The best part about Dave is Kathy likes him, and she is never wrong about people. Dave can come to Fort Smith anytime and have no less than a half a dozen folks ready to offer their hospitality. When I met Dave at Dayton years ago little did I know what kind of impact he would later have on me and the Fort Smith group. Even back then Dave is indirectly the cause of ArkieCon, a story in itself.

Speaking of Kathy, after Dave's talk I could see Kathy (no call yet) smiling at the back of the room along with one of the VEC tester's, Jerry AB5SE. Kathy had just passed her 5 wpm code test. Kathy is my best friend and I was tickled to see her pass it and I had ganged up on her to take the test.

She and my Houston buddy Curt, KI5AK, were very instrumental in making things run very smoothly. What you don't know is that when Chuck Adams was here last year, he asked her if she was interested in becoming a ham. He said "I will send you some CD's when I get back home." I really didn't think Chuck would remember to do it and didn't find out until a couple of weeks ago that she had studied the CD's that Chuck had sent. I know Chuck is the reason she studied the CD's on Morse Code. I sure wish Chuck could have been here to help us celebrate her accomplishment. It is no wonder QRP is growing at such a fast rate. All of guest we had over the weekend were Elmering the attendees just like Chuck did Kathy last year. Can't wait to see what the next few years bring. Thanks Chuck your presence was really missed!

After lunch, was "Wild Man Dr. Megacycle", Jim Duffey's turn to speak on antennas. As usual Jim did an outstanding job. I don't know which is better with one of Jim's talks, being entertained or learning. I still can't get over how his mind works. He knows so many things about everything and there is never enough time to figure out what makes this guy tick. Jim and Dave set the antennas up for the test drive and made everything work very smoothly for all to enjoy. Not only can Jim teach but he was able to fix Doug's tuner before the forum by adding a small jumper in the right place. This Z-Match tuner that I now have in my shack is sure great to use. Thanks Jim for coming. I will see you at the other Fort in a few months and the next time you are in Fort Smith I will have some better CD's for your enjoyment.

Our next guest, all the way from Ontario, Canada was Glen Leinweber. As you may recall, Glen was the designer of the VE3DNL Marker/Generator which the Fort Smith QRP Group kitted last year as a fund raiser for this year's ArkieCon. I'm not sure Glen knows how much he has affected the QRP community by allowing us to use his clever circuit that was here on QRP-L a few years ago. He also did a fantastic job with the Elmer 101 series. This fund raiser allowed us to fly in the guest speakers, pay for their motel rooms and purchase the main prize which was an Elecraft K-2. This was Glen's first QRP Forum in the States. Glen did a fantastic talk on how to improve any rigs efficiency to allow greater battery life when in the field. He also has some novel final output circuits that he is working on to improve the efficiency of any QRP rig. Glen brought several examples of his class E amplifiers. I especially enjoyed the long dah transmitter and can't wait for the perfected two dah transmitter. Gang, be patient on Glen's future articles, the wait will be worth it. Glen, hope you will be able to come back to Fort Smith soon and thanks for putting up with us Red-Necks, grin.

Last but not in any way least is Paul Harden, who came back to fill in for Chuck Adams. While the forums were going on, several people had asked Paul about the layers of the earth's atmosphere so just prior to the Regen Tech talk, he expounded on these points which was just as fantastic as his talk

on Propagation. Paul then started talking not only about Regens but also just basic electronics troubleshooting. The crowd just loved the way he simplified the Regen circuit so they could understand it. All of our guest speakers were very accessible to the attendees, but Paul has always had a gift in relating with anyone after his talks. Paul is a great teacher! Paul, thanks for driving out and I also hope to see you soon at Fort Tuthill.

While Paul was finishing his talk, I slipped out to the truck to retrieve the K-2 for the main prize giveaway. We already had Vern Wright's PW-1 antenna on display. While I was standing in the hallway, holding the K-2 box, I was talking to Don, K5AAR and a lovely lady named Sharon, WA0AYI about winning the K-2. I thought to myself how neat it would be if someone like Sharon could win the main prize, because her and her husband had driven from such long way. They drove all the way down from Lincoln, Nebraska. Little did I know that fate would step in once again. Doug was the master of ceremonies and he had me reach my hand in to the ticket barrel. You will never guess whose name I drew. You got it..... Sharon Stibal, WA0AYI. Several had made it down from the Nebraska-Iowa area, all deserving a main prize because of the distance they had driven. Sure nice to meet you all and thanks again for attending.

As for any event this large, we had fun and made changes as we went along. We took an hour and a half break while Jim and Dave set the antenna's up for Saturday Night's test drive. Kathy and Curt went to pick up the barbeque. We didn't plan this originally but decided as one of our changes to make it free to all of those who wanted to come back for the test drive. This worked extremely well, except we only purchased enough food for 55 attendees which was just barely enough. There were no left overs. The free Barbeque was such a big hit we would like to make this an annual event.

One of the many things I screwed up on this weekend was not knowing about the building contest. I even went so far as to tell some people that there was not a building contest planned. Little did I know that Doug Hendricks and the Hanging Judge Kelsey had planned a building contest without telling me. The "Judge" even had it advertised on our web site. With NorCal rules in place, we picked up the fumble and ran with it. Doug and the "Judge" looked over the various entries and picked Keith, K5YCM's newly completed Red Hot 20. Both Doug and Kelsey complimented Keith on his fine workmanship. Keith received an MFJ 17m Cub for his efforts. Keith along with Steve, K5ATY helped with the QRP Forum setup and ArkieCon badges.

The rest of the night was spent visiting and letting folks try out the various rigs. Doug was in the hallway, making NorCal doublets for various folks and managed not to cut his finger off in the process, grin. The test drive started to breakup about 10:00 and we tore down the test drive station. To reward Jim, Dave, Curt and Kathy, we all went back to my place and had pizza for a midnight snack. I have never seen a guy put away more

pizza than Dr. MegaCycle, Jim Duffey. Dr Meg, Curt, Kathy, and Dave had put in a hard weekend and deserved more than the pizza!

I know this was a long post, but I wanted people who could not attend to get a feel of what is involved in one of these events. I had a ton of help and a lot of people covered my mistakes so everyone would have an enjoyable time.

I'm going on pure adrenaline right now. Please give me a few hours to compose a post of "Thank You's" in making ArkieCon very successful. Also to Marshall and Bob, I will get your rigs back to you ASAP in just a few days.

73 Jay..

Date: Mon, 10 Apr 2000 13:15:40 -0400
From: "John Humphrey" <jhumphre@ultra-tech.com>
To: qrp-l@lehigh.edu
Subject: [67567] QRPTTF
Message-ID: <s8f1d426.000@ultra-tech.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable
Content-Disposition: inline

Hi Gang,

I plan on operating QRPTTF this year from the banks of a park pond just across the border of VA in WVA, so will be W4IM/8 WV WT. I will be in WVA on a church retreat, but will have most of Sat afternoon available to operate. Hope to work lots of MM's and OC's !!! Don't forget the Mae West's!!

72,73,
John W4IM QRP-L #1691
Stafford, Va.

Date: Mon, 10 Apr 2000 10:22:02 -0700
From: schoon@amgt.com
To: <qrp-l@Lehigh.EDU>, <n0rc@qsl.net>
Subject: [67568] RE: Help with QRP-ARCI QSO
Message-ID: <c=US%a=_%p=American_Geotech%l=AG-CALCITE-BD-000410172202Z-2664@mail.amgt.com>

MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Ah, cut numbers - as we used to call them in the Navy. IIRC,

1	a
2	u
3	v
4	?
5	e
6	?
7	d
8	b
9	n
0	t

It's been about ten years since I was a CW op for the US Navy. Maybe someone else can fill in the blanks or correct the errors??

73

.mark

```
=====
Mark Schoonover KA6WKE          IS Manager
Trail Runner, HAM                schoon@amgt.com
      ka6wke@wb6dgr.#sca.ca.usa.noam
http://www.qsl.net/ka6wke        ka6wke-1 145.05
      Mobile: 146.52 & 28.470
      Lat: 32.85380 Long: -117.00980 Grid: DM12LU
=====
```

>-----
>From: Rod, N0RC[SMTP:n0rc@qsl.net]
>Sent: Monday, April 10, 2000 8:05 AM
>To: Low Power Amateur Radio Discussion
>Subject: Re: Help with QRP-ARCI QSO
>
>Folks:
>
>Just too many respondents (16!) to answer each individually--Thanks
>one and
>all for the help.
>

>What threw me was the use of letter "o" as a zero. I had not heard
>that before, always heard the long dash or "T" used as a zero. As is
>PWR 1TTW, (do people really use that much power? ;-) or PWR 1TT MW. Oh
>well, smarted now for next time.

>

>And to clear up confusion (mine) I did copy 1ooNN, not 1ooTT as I
>posted later.

>

>---

>72/3 Rod, N0RC -- Fort Collins, CO

>

>----- Original Message -----

>From: Rod, N0RC <n0rc@qsl.net>

>To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

>Sent: Sunday, April 09, 2000 1:29 PM

>Subject: Help with QRP-ARCI QSO

>

>

>> I worked a weak station in Maine, K0ZK who was sending 1ooNN for the

>

>

>

>

Date: Mon, 10 Apr 2000 13:30:43 -0700

From: "Stephen Gibson" <s.w.gibson@worldnet.att.net>

To: <qrp-1@Lehigh.EDU>

Subject: [67569] TEN-TEC Argosy for sale

Message-ID: <001001bfa32b\$a88e9120\$b5784e0c@computer>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

FOR SALE:

TEN-TEC 525 Argosy, analog w/manual, all cables incl cig ltr input for
mobile op. Cosmetically 8/9 out of 10, operationally 10 out of 10!

OHR SCAF 10/10 on all counts.

Price \$300, MO, and I pay shipping.

Sorry to sell this rig but the K2 has replaced it in my affections.

73/72

Steve, WB4NBI

Date: Mon, 10 Apr 2000 11:21:15 -0700 (PDT)
From: "James C. Owen, III" <k4cgy_list@yahoo.com>
To: notajock@juno.com
Cc: qrp-l@lehigh.edu
Subject: [67570] Re: Need an answer
Message-ID: <20000410182115.13019.qmail@web1608.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hi Bob,

Since the HTX-100 only operates on 10 why not just put up a 10m dipole (8 1/4 ft per side) and then you don't need a tuner. If you want a tuner that will handle higher power and is smaller than the HTX-100 then look for a Kenwood AT-120 or AT-130 tuner. These were made to go with the TS-120 and TS-130 transceivers. Will handle about 300+ watts but are not for balanced line, only coax. The AT-120 covers the 80-40-20-15-10 meter bands and will go for about \$75.00 where the AT-130 adds the WARC bands and cost around \$100-110.00. I have a 130 and it works well with no measureable loss up to about a 3:1 mismatch.

72 Jim K4CGY
qrp-l #72

--- Robert B Boughner <notajock@juno.com> wrote:
> Hi all
>
> I am putting up a 50ft dipole. I am going to use it
> with my HTX 100.
> Since on high power it runs 25 watts.
>
> So my question is, where can I find a suitable
> antenna tuner that will
> handle the power?
>
> Bob
> WA9LSD
> -----

Do You Yahoo!?
Talk to your friends online with Yahoo! Messenger.
<http://im.yahoo.com>

Date: Mon, 10 Apr 2000 11:21:56 -0700
From: Allan G Taylor <agtaylor@llnl.gov>
To: qrp-1@lehigh.edu
Subject: [67571] SST/40m VXO range experience wanted
Message-ID: <38F21BC4.4B9C@llnl.gov>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have doctored up the VXO on a 20m SST to give a total range of 14033 - 14068 kHz. This was done with a 2nd crystal paralleled with the VXO crystal and a slightly smaller inductor. Also, the two supplied varicaps were switched in, one at a time. This was reported to QRP-L last fall sometime.

I am wondering what experience SST modifiers have had with the same technique applied to a 40m SST? The VXO frequency is considerably lower and will likely not be nearly as wide in freq. range.

73

GT

--
Allan Taylor K7GT agtaylor@llnl.gov

Date: Mon, 10 Apr 2000 14:24:38 +0200
From: lenny wintfeld <w2bvh@home.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [67572] VP6BR is on 21.120 now
Message-ID: <38F1C806.A61439AB@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi

VP6BR (Pitcairn) is on 21.120 now (18:20 Z).

Best 73's,

Lenny w2bvh

Date: Mon, 10 Apr 2000 13:47:25 -0500
From: "Dan W. Dooley" <dandooley@pipeline.com>
To: "QRP List" <qrp-l@Lehigh.EDU>
Subject: [67573] Multiband radials
Message-ID: <001701bfa31d\$3960fda0\$04987b7b@dooleydw>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Anyone had any experience with close spaced multiband elevated radial sets for vertical antennas?

I'm looking to redo my radial system and rather than fan radials out in all different directions requiring a whole lot of difficult to find tie points, I'd like to run them out in four different directions. That is, a set (of 4) for each band (40, 30, 20, 17, 12, 10) but have them close spaced enough that I can consider them feeding out to 4 tie points.

I realize that they should not be exactly side by side and that the radials for different bands should fan out a little to minimize detuning. I'm just wondering how closely together I can run the radials for different bands and not have major problems. I also realize that once they're up, I will have to do some tweaking of each band to make them resonate. I don't mind that.

So, just looking to see if anyone else has done this.

Dan W. Dooley WB5TKA Bedford, Texas EM12ku
e-mail to: dandooley@pipeline.com
May Goddes love blest ye alle
SOC#198
"Ancient Pistol, I do partly understand your meaning."

Date: Mon, 10 Apr 2000 14:09:13 -0500
From: clifton w sikes <n5uw@juno.com>
To: qrp-l@lehigh.edu
Subject: [67574] ArkieCon Ramblings
Message-ID: <20000410.140915.-67763.1.n5uw@juno.com>
MIME-Version: 1.0

Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Wow! Jay and Kelsy did a bang up job. The entire Ft. Smith group can, and should be proud of ArkieCon 2000. It was great to see such a number of QRP folks, here in the mid-country. Like has been said before, you owe it to yourself to attend one of these forums.

The speakers are great, but the best part is meeting the folks you have worked on the air, and read on QRP-L. Make plans, find a good travelling companion, and head off to one of the "Con's", if at all possible. You won't be sad about your decision.

I worked N4BP, from the test drive set up, Saturday night, and sent AR for the state. When I got home Sunday, I worked him on 15, and sent OK. Bob said, where are you? Did you send AR last night on 40m? Got a good chuckle out of that. Just part of the fun.

Thanks to all who made the trip, and to Jay, Kelsey and the neighbor from across the street. Oh, if you have never met Jan Medley, do it. She was fun to meet and visit with.

Clif N5UW

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<http://dl.www.juno.com/get/tagj>.

Date: Mon, 10 Apr 2000 13:29:03 -0600
From: "Rod, N0RC" <n0rc@qsl.net>
To: "qrp-l" <qrp-l@Lehigh.EDU>, <elecraft@ns3.qth.net>
Subject: [67575] QRP-ARCI Summary
Message-ID: <007101bfa323\$2bf19a20\$c7101004@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Surprising results given the band CONDX and only ~10-12hrs of OP time:

439 QS0 pts X 69 SPCs X 7 PWR MULT = 212037

103 QS0's

35 States Worked !
3 Canadian Provinces

BAND ANALYSIS

BAND	QSOs	SPCs
7	19	10
14	34	27
21	32	20
28	18	12

RIG: K2@5W (ATU & NB)
ANT: ATTIC MULTIBAND DUBLET @ ~20ft

OP Notes:

The K2 is THE QRP rig for multiband events like this effort. I was able to switch bands as fast as I could change frequencies on single band. The log clearly shows 1 or 2 QSO's on one band, then a minute later more QSOs on another band. I let the memory keyer handle the CW in repeat mode with 6sec pause between calls. Everything else was done with Schurr Profi Paddles. (As those who endured my SOC sending, TU, know ;-)

20m always seems to be my "work horse" band. So, it's got me thinking, why not try a single band attempt on 20m with only one watt next time, just for the fun of it.

High Points

- + First ever HI QRP contact, KH6U, 20m.
- + 20m QSO with AL7FS, AK is a tuffy with an attic dipole
- + 20m QSO with WA4QDM, John, a friend, he was using his NorCal 20 that I built for him.
- + Familiar calls I could put a faces to from Atlanticon.
- + All the other familiar calls from the QRP-L.
- + The K2's performance
- + WAD-Worked All Dakotas, Ade, W0RSP; Doc, K0EVZ :-)
- + 35 states worked

Low Points

- Band CONDX
- Not being able to count W6TOY, QSB ate our attempt
- My CW skills, I MUST PRACTICE MORE!!!
- 15 states not worked

72/3 Rod, N0RC -- Fort Collins, CO

Date: Mon, 10 Apr 2000 12:57:30 PDT
From: "Doug Hendricks" <ki6ds@hotmail.com>
To: qrp-1@lehigh.edu
Cc: kmike@alltel.net
Subject: [67576] Arkiecon: The People
Message-ID: <20000410195730.53609.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Guys, I was tired last night and didn't get to finish all that I wanted to say about Arkiecon. The best part about any qrp forum is the opportunity to meet and see friends. I thoroughly enjoyed myself at Ft. Smith, and the reason was the people in Arkansas are the nicest people in the world. JayBob Bromley, Kathy Vines, Kelsey Mikel, Win Dooley all worked their tails off putting on the event, and yet they always had a smile on their face, and a kind word for everyone, that is an amazing thing considering the responsibility and stress they were under.

I love meeting people, guess you might say that I am a people person, grin. Last year I met this lovely couple, Willie and Ernestine from Texarkana, AR. They drove 3 hours to come to Ft. Smith to meet Chuck and I last year, and it was through a horrible ice storm. One of the things that I do to relax is play guitar and sing (but only to myself as I am a terrible guitar player and a worse singer, even the dogs run and hide when I get the guitar out..).

One of my favorite songs is CCR's version of Cotton Fields. When I met Willie and Ernestine, I asked them if there really were cotton fields in Texarkana. Ernestine, who has one of the friendliest smiles you will ever see, said that yes they did. I was so impressed with how friendly and kind Willie and Ernestine were, that every time I play "Cotton Fields", I think of them and smile. Saturday, Willie and Ernestine drove the 3 hours back to Ft. Smith. Willie had worked all night, and was tired, but he made the trip. Ernestine wanted to check up on me. I was greeted with that famous smile and a big hug this year, and that was one of the highlights of my trip.

Another old friend that I got to see was Keith Newman, K5YCM, who very kindly made all of the arrangements for the no host dinner at the Rib Eye Friday night. Keith made sure that everyone who wanted to got the opportunity to try the "Turkey Fries and Fried Cukes". He also broke the rules and bought my dinner. Thanks Keith. But the neat thing about Keith, is that he is so kind and caring towards everyone. He jumps in there and works, and gets things done. When the Ft. Smith group needed a new place to

hold the hamfest, Keith Newman found one (great job!!), when we needed a microphone, amplifier and speaker system, Keith Newman stepped up. But the best part was getting to see his Red Hot NorCal 20 kit. Kelsey and I were the judges for the building contest, and it was a dandy. Those guys in Arkansas sure know how to build. Clif Sikes brought some homebrew keys and paddles, Dave Redfearn brought his NorCal 20 and matching case that he put in a power supply and speaker. Beautiful job. Darryl Swenson drove all the way from Omaha and entered his Tuna Tin 2 and his new MFJ Cub 20 meter kit. But the piece de resistance was the Red Hot 20 built by Keith Newman. I have seen many, many qrp rigs in my time, but nobody has ever done a finer job of building one than Keith. Every capacitor was the same height, every resistor the same height, the turns on the toroid were exactly spaced the same. In short, it was built the "right way". Kelsey and I had no problem awarding first prize, an MFJ Cub on 17 Meters, donated by Martin Jue of MFJ himself. Kelsey also disqualified Paul Hardens TT2/MRX combo that beat him at Pacificon. He said that it might have beat him at Pacificon, but there was no way that Paul was going to win in Arkansas with a radio that had exhaust pipes, grin.

What fun it was to meet Dennis Foster, the Te-Ne-Key builder himself. Dennis makes the most unique keys and they work great. He presented me with a couple as a gift, and I was thrilled to get them. He is also going to write an article for QRPP that will show you how to make your own (but I'd just buy one from Dennis, it is a lot easier, grin). Dennis came with an old, old friend, Burl Keeton from Oklahoma City. Burl is a treasure, and I always enjoy visiting with him. I did get to give Dennis and Burl NorCal Doublets with a WE6W feedline and KK6MC dimensions. Let's see, I got the idea for using ladder line from Dave Gauding, Ed Loranger suggested an improvement for the feedline and Dr. Megacycle improved the dimensions. Pretty soon even I won't recognize the thing. Burl and Dennis both promised to put them up and give it a try.

Dave Redfearn drove up from Dallas, and it was great to see Dave again. We met at Dallas a couple of years ago. He brought a spool of 50 conductor ribbon cable, and we used it to make several NorCal Doublets/WE6W Feedline/KK6MC measurements.

I met Kelly Ellison from Aurora who has been a long time contributor to the list. He is a great guy, and he brought a friend who got me up to date on mutual acquaintances that we had from Golden City, MO. Kelly is a fun guy, and has a great time at these meetings.

Another thing that I want to mention is the great support that Arkiecon got from the prize donators. Vern Wright, donated a PM-1 antenna, Martin Jue from MFJ donated a 17 meter MFJ Cub, Gary Diana from Embedded Research was here in spirit again. He donated several Embedded Research TiCK kits. What a great guy Gary is. He supports every QRP event. Marshall Emm sent his personal OHR500 for the test drive. That is a great gesture. Thanks for

also donating a PK-3 keyer kit. Bob Dyer from Wilderness Radio donated several Wilderness Radio Logbooks, as well as sending along an SST and a Wilderness NorCal 40A for the rig test drive. Great job guys and thanks for the support. George Heron of the NJQRP club sent along 3 SMK-1 case kits, an SOP receiver, and a Fireball 40 kit. NorCal donated 100 Special Edition ArkieCon 2000 logbooks, and 3 SMK-1 kits. Jerry Parker donated a couple of NorCal T-Shirts. Paul Harden donated a databook, Elmer 101 Issue, and a 2N2/40 issue. Doug Hauff, of San Luis Machine Company donated one of his beautiful hand keys. It is great to have so much support from the vendors and other clubs. Thank you.

I have more, but am running out of time for this session. Hope you enjoyed the report as much as I did experienceing it. 72, Doug

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Mon, 10 Apr 2000 16:20:11 EDT
From: RangerSF5@aol.com
To: qrp-l@lehigh.edu
Subject: [67577] From WA2HOQrp <tm>
Message-ID: <dc.25cfbea.2623917b@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Gang,
I want to thank all of you for sending me get well cards via snail mail and *E* mail.
Seems like I reached a point where my condition will not improve beyond that. Still getting severe head aches along with irregular heart beats that Doctors say may be from Lyme disease so they don't want to give meds for that untill they isolate the problem.
Some Doc's say I'm nuts and it's all in my head and two local hospitals will not admit me saying that there is nothing wrong with me.
GEE,they found all this out with no test of any type.
Looks like the MIR on Friday will show something and if not then the spinal tap may show the Lyme disease.
Not on the air much but listen a lot and hear many QRP-L members there.

=====
OK now here is where I need help.
I want to build the DSW but at this time the tremors and vision will not allow me to do so.
If I buy a kit i'm willing to pay someone to build one up for me for 40-M.
Please *E* mail direct.=====

Tonight,

If I feel up to it, tonight i'm going to try to get on 40-M with my ARK-4 (4 watts) around 0200 UTC between 7.035 to 7.050 @ 15-18 WPM.

If you hear me give a shout.

Thanks and 72/73's to all

Bob

WA2HOQrp <tm>

Date: Mon, 10 Apr 2000 14:03:53 -0700
From: Allan G Taylor <agtaylor@llnl.gov>
To: qrp-l@lehigh.edu
Subject: [67578] WTB: SST or NC40A PCB, w/ or w/o parts.
Message-ID: <38F241B9.5305@llnl.gov>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I am looking for either an SST or NC40A (Rev B) PCB to use in some upcoming near-homebrewing. If you have either an SST or NC40A with blown transistors (say, from a reverse voltage incident) or from an incomplete build that was stopped due to parts-raiding, etc.... I would be interested in hearing from you. It is my understanding that Wilderness Radio doesn't sell the bare boards. I have a 40-9er bare board and a 40-9er kit for trading stock, if either are interesting. Also a TT2/MRX40 could be fodder for a trade.

73

GT

--

Allan Taylor K7GT agtaylor@llnl.gov

Date: Mon, 10 Apr 2000 16:37:23 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: ed miller <millered@magnet.fsu.edu>
Cc: qrp-l@lehigh.edu
Subject: [67579] (LONG) HB: Getting started with SMT"
Message-ID: <200004102116.RAA18727@wolf.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

> Steve:

> I enjoy your posts about the surface mount projects you are working

> on. I am in the very beginning stages of trying surface mount myself
> and was wondering if you had the time to write up a " Getting
> Started in SMT " posting or even better an article for QRPP. I am
> getting used to CIRCAD and have some parts on order for the junk
> box, but I need ideas for making the circuit board. I have ground a
> gouge type of cutter to carve a board, but it is slow. Assuming a
> working knowledge in CIRCAD or similar program, how do you get to a
> circuit board? What do you use for an SMD FET? Is the 1206 sized
> device the best one to start with? What about active devices? SOT-23
> seems to be quite small. SOT-323 from MOUSER appears to be a better
> choice but I find only SOT 223 in CIRCAD. I am not asking for a
> personal reply. These are some of the questions I have and I doubt
> that I am alone. If you have the time I am sure a lot of people will
> appreciate the information. Are you going to be in Dayton for
> FIDIM? If so I hope to get a chance to talk with you.

73 Ed KC4MHM

Hi Ed,

Glad you like my smt posts.

Well, it would take full feature article on "Getting strated with SMT" with pictures to do it full justice. I'll try to give some quick answers to your questions. I belive there have been articles on using smt parts in QST and 73 in the past.

You really need to learn to make your own boards. Circad is great for that, as the demo comes with a decent smt parts library and it prints at 600 dpi, a must for x1 SMT print outs. In Circad, all the SMT foot prints are for the top copper layer. Be sure to remeber to print out a mirror image, so it comes out right when you do a toner transfer. (plotter setup, multiply image by -1.000)

I use PnP Blue toner transfer sheets. It's a bit expensive, \$30 for 20 sheets, but works well. (www.techniks.com) A full discription on how to use the film with consitant results would also take a full feature article, but here's a few quick tips.

To conserve film, only use a piece a little bigger than the board. First make a paper print out of the layout. Cut a piece of film and attach it to the paper, over where it printed, using some double sided tape. Put a piece of paper between the film and the printed area, otherwise toner from the paper will stick to the back side of the film and gum up your iron later. Run the paper and film through the printer again. (note, it must be a laser printer)

Cut some pcb stock a little bigger than needed.

Clean the board with a non-detergent "Scotch Bright" (tm) pad. If the

copper is badly oxidized or real dirty, using a copper cleaner like "Twinkle" tm first is worthwhile. Wipe the copper down with denatured alcohol, several times, to remove microscopic grit that otherwise keeps the toner from sticking to the board. Use an oven thermometer (cut the metal hanging tabs off) so you know when the iron is between 250 and 275 degrees. Less than 250 and the toner won't transfer well, above 275 and it will "bleed". Don't rely on the iron's thermostat. Use a light dimmer or motor speed control to adjust the temp.

Apply heat to the film for about 60 seconds, while pushing down as hard as you can. A small board may take a little less time, large boards longer. Move the iron around some, making sure you heat the whole board, especially the edges. Let the board cool and carefully peel off the film. Some touch up with a resist pen is often required, especially large ground plane areas.

After etching the board, remove the toner with some paint thinner, trim the board and drill any required holes.

Okay, so much for making boards..

I haven't used any smt FET's but am sure they are available, somewhere.

1206 size parts are good, but 0805 parts are no harder to use and they take up less space. It's just harder to read the markings on the resistors ;-). 1206 are good when you need to bridge a track, as there is more room between the pads. If you want to go crazy, Digi-Key now carries 0201 sized parts! It's good to have a capacitor meter around for checking caps. I've been shipped the wrong value before and caps generally aren't marked. If they are it's in some arcane code.

SOT-323 transistors are actually a tad smaller than SOT-23's, although it looks like you could fit them on the same pads as a SOT-23. SOT-223's are medium power (2W) transistors.

When putting down the real small parts like SOT-23's and IC's where pin alignment is critical, I find a "third hand" clamp is handy to hold them in place. A clamp is easy to make out of some scrap wood, a rubber band and a small finishing nail. Some people use a modified spring loaded clothes hanger clip.

Most likely, there will be some through hole parts on your board. Mount all the smt stuff first, then the through hole stuff.

No, won't make it to Dayton this year, unless someone wants to pay the airfare for me :-)

Hope this helps get you (and others) started using these fun little parts!

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Mon, 10 Apr 2000 14:19:39 -0700
From: Ed Loranger <we6w@qsl.net>
To: schoon@amgt.com, Low Power Amateru Radio Discussion <qrp-1@lehigh.edu>
Subject: [67580] RE: Cut Numbers.
Message-ID: <38F2456B.8F6657CA@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The real cut numbers, also on my webpage somewhere...

1 ==> A
2 ==> U
3 ==> W
4 ==> V
5 ==> S
6 ==> B
7 ==> G
8 ==> D
9 ==> N
0 ==> T

Pay no attention to misprints in the ARRL Handbook
or otherwise. These are the real ones. Enjoy.

72/Ed

--

72/Ed we6w; A-1 OP; SOC#63; QRPL#1068
<http://www.qsl.net/we6w> Santa Rosa, CA
Brain, only as strong as its weakest think.

Date: Mon, 10 Apr 2000 14:36:00 -0700
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateru Radio Discussion <qrp-1@lehigh.edu>

Subject: [67581] QRQ Net, QSO Practice in general.
Message-ID: <38F24940.ECC90A1D@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang, conditions were horrible and even at 15 Watts to get the net going, only K7TQ could check in and he had to run to do some QSO Party contest logs. So, all I can say is I was on for an hour and sent the practice as an RX net, id'ing after every 3 sentences, and calling for check-ins. I sent from 18 to 55 WPM CHARACTER rate. The dahs were lagging behind a little more than normal due to the contest work on the bug. The Blue Racer is a nice semiautomatic key.

Additionally, I have been getting very encouraged by all those folks on the list wishing for some QRQ practice as well.

I'm tentatively looking at a novice band, 40 meters, say 7141 KHz which I've known to hear well at this QTH. Not sure yet, perhaps run a 5 to 18 WPM net there and somehow get these folks to try out the 7039 KHz QRQ net as well. Even a couple of rounds there will help. I'm not sure who all has the Gen+ license for that net.

I'm still working out the details but I'm thinking we need a buddy system. You QSO with a buddy during the week and exchange the sentences and come NET evening, we see how fast we can do them well.

This is all very exciting. I'll keep working on format and scheduling. In the meantime, practice the QRQ posted sentences and try to listen in on Sundays, 7039 KHz, at 7 PM Pacific time, (Mon. 0200Z UTC.)

Happy days. -Ed

--

72/Ed we6w; A-1 OP; SOC#63; QRPL#1068
<http://www.qsl.net/we6w> Santa Rosa, CA
Brain, only as strong as its weakest think.

Date: Mon, 10 Apr 2000 14:53:15 -0700
From: "NA6E" <na6e@qsl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [67582] Dayton - need a ride?
Message-ID: <LPBBKMHGKJHAFCHLDJBAMEFFCGAA.na6e@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

After enjoying the events at the last 2 Pacificon's, I finally have a chance to go to Dayton and enjoy FDI. I'll be arriving at Dayton Airport Wednesday evening around 7pm and renting a car. If you are arriving around that time and need a lift to the Ramada drop me a line.

Jim's done a great job with the FDI info on the ARCI homepage. You can check it out at
<http://www.qrparci.org/fdim64.html>

73
Mary, NA6E
Sacramento, CA
QRP-C #7 QRP-ARCI #9923 WHINER'S #2

Date: Mon, 10 Apr 2000 18:00:42 EDT
From: n5ib@juno.com
To: qrp-L@Lehigh.edu
Subject: [67583] OPERATING: USS Kidd Tuesday April 11
Message-ID: <20000410.165946.4655.0.N5IB@juno.com>

A list member reminded me that I had neglected to give the location of the ship, for beam pointing, etc.

Baton Rouge, Louisiana - Grid Square EM40jk

1400Z 'till 2200 Z April 11
14200 +/-, 28400 +/-, possibly 14060, 21060, 28060
(only one rig active)

72
Jim N5IB

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End of QRP-L Digest 1787

